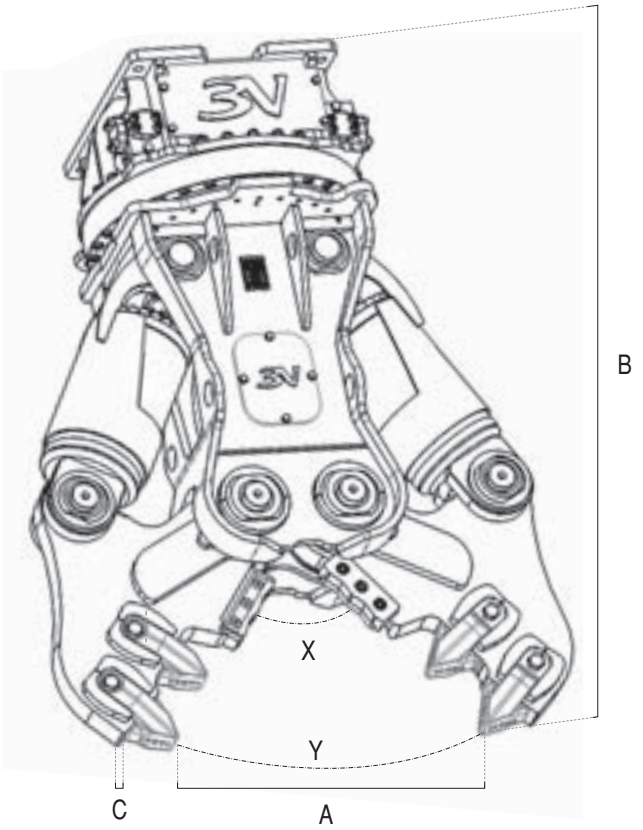
Demolition & Recycling Professional User Guide

HC 120
3V
CARDEM

HYDRAULIC PRIMARY CRUSHER

HC Series

...created for the most delicate and precise primary demolition phases, suitable for the demolition of reinforced concrete structures and the removal of materials at substantial heights, it is undoubtedly the fastest, most precise, powerful and compact equipment available on the market...



		HC 02	HC 05ND*	HC 10ND*	HC 13D**	HC 15ND*	HC 20ND*	HC 25ND*	HC 40	HC 50	HC 60	HC 80	HC 100	HC 120
Excavator Weight	t.	2 : 4	5 : 9	10 : 15	20 : 25	16 : 21	22 : 28	29 : 35	36 : 49	50 : 65	66 : 85	86 : 105	86 : 130	86 : 150
Weight	kg.	180	550	1020	1320	1680	2130	2640	3820	4850	6430	8550	10750	12200
A	mm.	280	480	685	610	820	890	1090	1370	1500	1680	1830	2050	2305
B	mm.	1020	1300	1550	1750	1775	1900	2115	2520	2690	2950	3160	3350	3700
C	mm.	25	50	60	60	70	70	80	90	100	100	120	120	130
	mm.	90	140	140	180	180	180	220	260	325	325	325	400	400
X	t.	60	80	160	180	170	205	220	365	470	590	720	760	820
Y	t.	18	20	45	45	60	70	75	85	120	145	185	220	240
Working pressure	bar	210	250	310	310	310	310	310	310	340	340	340	340	340
Oil flow	l/min.	40 / 60	80 / 150	150 / 250	180 / 250	180 / 250	200 / 300	250 / 350	300 / 400	350 / 450	400 / 500	450 / 650	500 / 800	500 / 800
Rotation	l/min. / bar	/	10 / 120	10 / 140	10 / 140	10 / 140	10 / 140	10 / 140	10 / 140	30 / 140	30 / 140	50 / 140	50 / 140	50 / 140

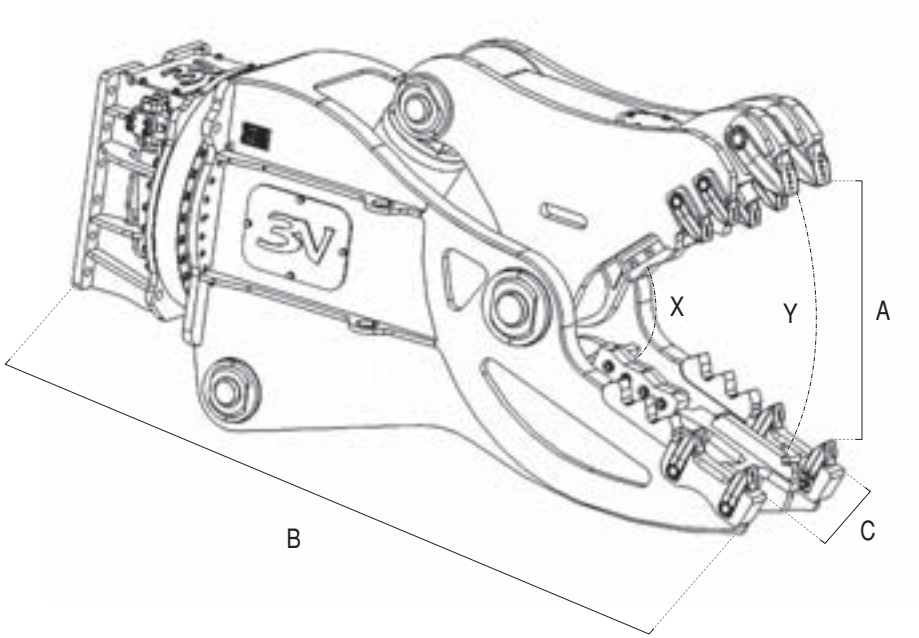
(*) Bolted interchangeable teeth version available / (**) Recommended for 20 to 25 t. excavator with demolition long boom

delpe

ROTATING PULVERIZER

FR Series

...the structural characteristics of this pulverizer allow the operator to tackle the primary and secondary demolition phases with just one equipment. As precise and quick as a crusher thanks to the continuous hydraulic rotation, powerful and productive thanks to the jaws typical of a demolisher...



		FR 09RD*	FR 13RD*	FR 15RD*	FR 20RD*	FR 25RD*	FR 35RD*	FR 50RD*	FR 70RD*	FR 100N	FR 200	FR 250
Excavator Weight	t.	9 : 12	13 : 15	16 : 21	22 : 28	29 : 35	36 : 50	51 : 67	68 : 85	86 : 130	100 : 200	100 : 250
Weight	kg.	920	1320	1650	2210	2840	3450	5190	7250	11450	20580	24640
A	mm.	655	705	745	870	915	980	1120	1320	1700	1900	2050
B	mm.	1730	1920	2050	2330	2420	2500	2840	3250	3850	4480	5140
C	mm.	360	410	450	505	600	640	735	790	970	1400	1400
	mm.	140	220	220	260	260	260	260	325	500	500	500
X	t.	85	140	190	205	230	350	380	490	545	860	990
Y	t.	40	55	65	80	105	120	140	180	235	380	410
Working pressure	bar	310	310	310	310	310	310	340	340	340	340	340
Oil flow	l/min	150 / 250	180 / 250	180 / 250	200 / 300	250 / 350	300 / 400	400 / 500	450 / 600	500 / 800	900 / 1200	900 / 1200
Rotation	l/min. / bar	10 / 140	10 / 140	10 / 140	10 / 140	10 / 140	10 / 140	30 / 140	30 / 140	50 / 140	50 / 140	50 / 140

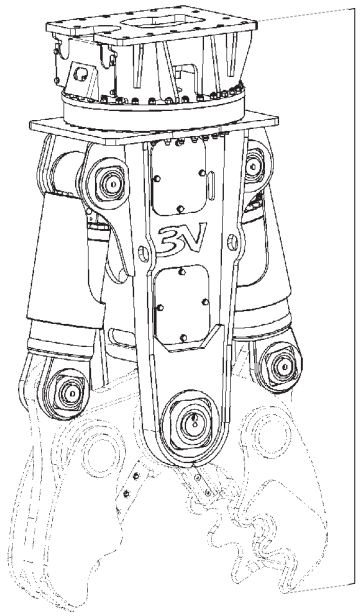
(*) Bolted interchangeable teeth version available

...functional and versatile tool that allows different work kits to be assembled on just one universal carrier chassis to be used on work sites for various different applications such as demolition, crushing, cutting ferrous material and metal profiles, separating and moving various types of aggregates...

UNIVERSAL PROCESSOR

MF Series

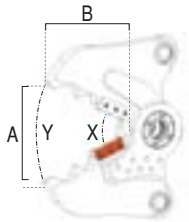
		MF 15	MF 18	MF 25	MF 40	MF 60
Excavator Weight	t.	15 : 22	18 : 23	24 : 37	38 : 54	55 : 75
Frame Weight	kg.	1010	1350	1600	2650	4050
H	mm.	1600 ~	2000 ~	2300 ~	2600 ~	3000 ~
Working pressure	bar	310	310	310	310	340
Oil flow	l/min.	150 / 250	200 / 300	250 / 350	300 / 400	400 / 600
Rotation	l/min. / bar	10 / 140	10 / 140	10 / 140	10 / 140	10 / 140

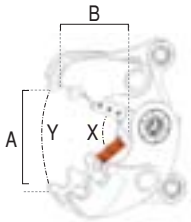


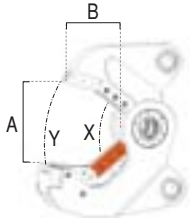
HARDOX® WEAR PLATE

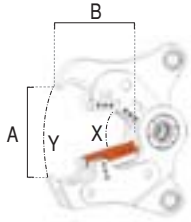
Speed Valve

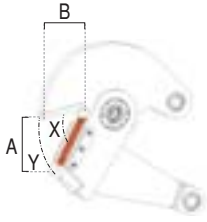
INTERCHANGEABLE 3V TOOTH SYSTEM

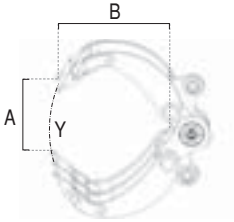










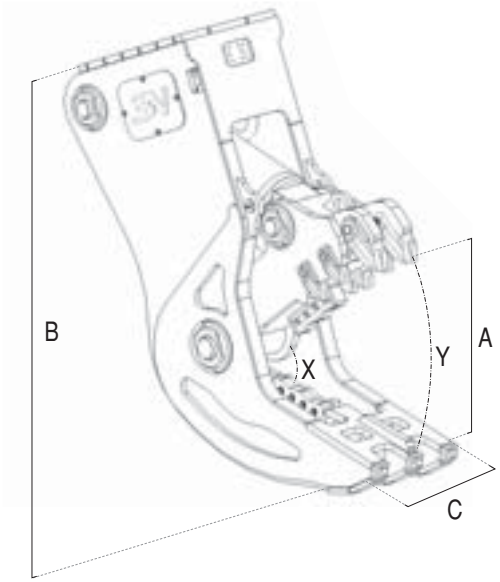


		Primary Crusher Kit					Pulverizer Kit					Shear Kit					Combi Kit					Steel-plate Shear Kit					Handling Kit				
		MF 15	MF 18	MF 25	MF 40	MF 60	MF 15	MF 18	MF 25	MF 40	MF 60	MF 15	MF 18	MF 25	MF 40	MF 60	MF 15	MF 18	MF 25	MF 40	MF 60	MF 15	MF 18	MF 25	MF 40	MF 60	MF 15	MF 18	MF 25	MF 40	MF 60
Kit Weight	Kg.	475	630	780	1420	2080	530	710	890	1510	2220	465	620	780	1310	1960	480	640	790	1340	1780	585	780	860	1380	2020	725	970	1260	1530	2310
A	mm.	580	770	870	1080	1350	525	700	870	980	1100	345	460	550	630	740	570	760	850	950	1230	120	150	150	200	250	1020	1350	2020	2160	2430
B	mm.	435	580	690	770	880	425	570	660	710	820	270	360	460	750	860	430	570	675	750	920	255	340	390	480	550	955	1270	1000	1350	1510
	mm.	180	220	220	260	260	180	220	220	260	260	150	200	260	390	440	260	350	400	450	540	225	300	350	400	450	/	/	/	/	/
X	t.	90	120	155	310	530	90	120	155	310	530	85	110	110	280	490	85	115	140	300	595	85	115	130	280	480	/	/	/	/	/
Y	t.	40	55	60	95	125	40	55	60	95	125	50	65	70	90	115	40	55	60	90	120	65	85	100	135	150	20	25	35	50	60
Ø max	mm.	20	25	40	50	60	20	25	40	50	60	30	40	60	70	90	25	30	50	60	70	/	/	/	/	/	/	/	/	/	/
IPN max	mm.	/	/	/	/	/	/	/	/	/	/	165	220	360	400	500	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
HEA max	mm.	/	/	/	/	/	/	/	/	/	/	75	100	200	260	320	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
max	mm.	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	8	10	12	14	20	/	/	/	/	/

SECONDARY PULVERIZER

F Series

...the fixed hydraulic pulverizer is suitable for the secondary demolition phase. Its particular hook shape makes it extremely versatile for use on the ground, allowing the demolition of boundary walls and vertical cement structures of medium height, paving and slabs with the consequent separation of the reinforcement iron in concrete...



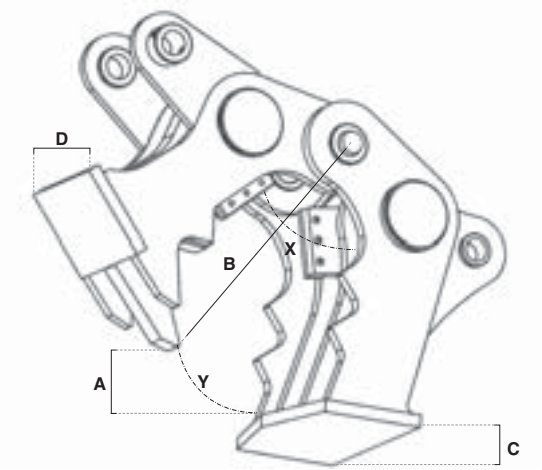
		F 07	F 12RD*	F 18RD*	F 20RRD*	F 25RD*	F 30RD*
Excavator Weight	t.	6 : 10	13 : 17	18 : 25	23 : 28	25 : 32	33 : 45
Weight	kg.	550	1190	1910	2310	2490	3070
A	mm.	475	690	810	810	870	950
B	mm.	1330	1740	1850	2230	1955	2100
C	mm.	330	420	470	470	570	650
	mm.	140	220	260	260	260	260
X	t.	70	150	200	200	235	275
Y	t.	25	65	80	80	95	105
Working pressure	bar	250	310	310	310	310	310
Oil flow	l/min.	40 / 60	120 / 200	200 / 300	200 / 300	250 / 350	300 / 400
Rotation	l/min. / bar	/	/	/	10 / 140	/	/

(*) Bolted interchangeable teeth version available

MECHANICAL PULVERIZER

FM Series

...practical, fast and powerful equipment, designed to process demolition waste material on site, for the demolition of concrete structures, framework and pylons, for the separation of the reinforcement rods from the concrete, it does not require any hydraulic connections because it uses the driving force of the bucket jack...



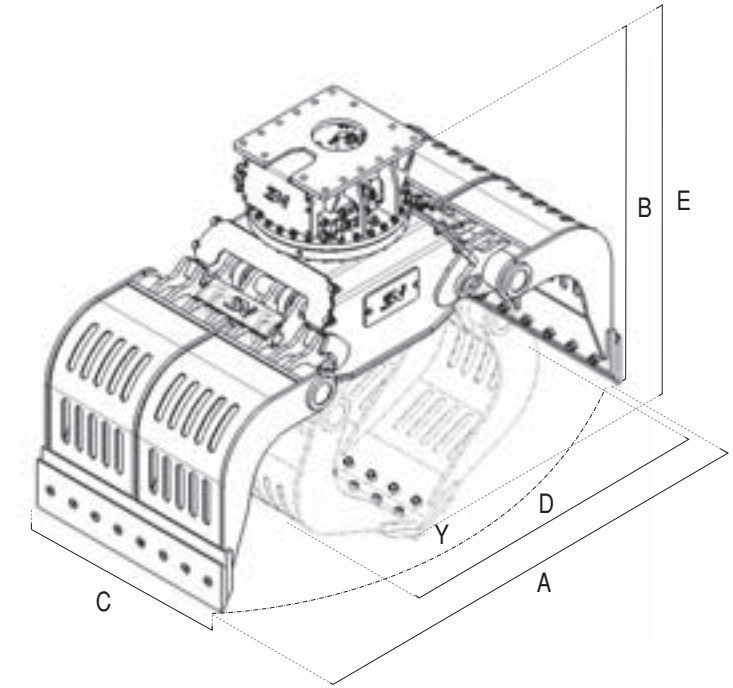
HARDOX® WEAR PLATE

		FM 10	FM 15	FM 20	FM 25	FM 35	FM 50	FM 70	FM 100
Excavator Weight	t.	6 : 10	10 : 15	15 : 25	25 : 36	36 : 48	48 : 65	65 : 80	80 : 100
Weight	kg.	600	850	1450	1600	2000	2800	3650	4500
A	mm.	550	715	915	1050	1200	1360	1500	1550
B	mm.	580	690	770	810	880	1050	1150	1250
C	mm.	450	550	660	660	700	800	950	1200
D	mm.	325	425	460	460	540	640	740	1050
	mm.	140	200	200	200	200	250	250	250
X	t.	55 / 75	70 / 105	90 / 135	120 / 180	160 / 225	195 / 300	260 / 400	350 / 500
Y	t.	20 / 27	27 / 35	35 / 45	45 / 60	55 / 75	70 / 100	100 / 130	130 / 150

DEMOLITION AND SORTING GRAB

PMG Series

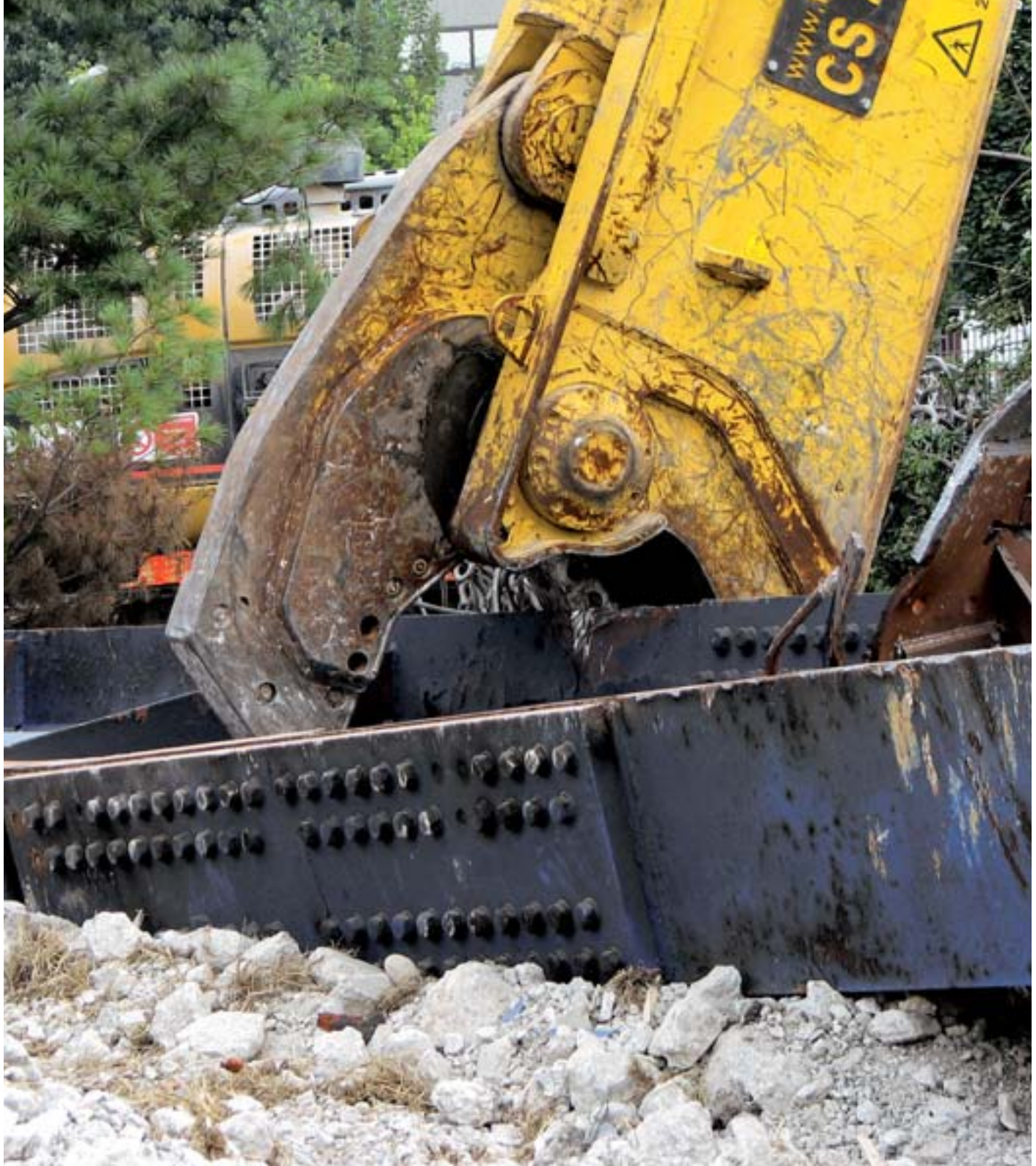
...the demolition and selector grabs have been designed and manufactured to demolish structures and buildings of medium consistency, for the targeted selection of resulting materials in environmental recovery, for specific separation and movement of the aggregates present on the work site...



HARDOX® WEAR PLATE

		PMG 05	PMG 08	PMG 09	PMG 10C*	PMG 10S**	PMG 15C*	PMG 15S**	PMG 20C*	PMG 20S**	PMG 30C*	PMG 30S**	PMG 40S**
Excavator Weight	t.	4 : 6	6 : 8	9 : 14	15 : 19	15 : 19	20 : 25	20 : 25	23 : 30	23 : 30	31 : 45	31 : 45	46 : 65
Weight	kg.	370	420	750	1020	1070	1440	1530	1870	1995	2880	3160	3870
A	mm.	1100	1490	1750	1950	1950	2060	2060	2455	2455	2800	2800	3050
B	mm.	790	960	1170	1290	1290	1410	1410	1555	1555	1800	1800	2100
C	mm.	600	600	700	900	900	1000	1000	1150	1150	1300	1300	1500
D	mm.	1030	870	1050	1180	1180	1260	1260	1450	1450	1700	1700	1950
E	mm.	960	1170	1320	1460	1460	1580	1580	1790	1790	2020	2020	2300
Y	t.	2	2,5	3,5	5	5	6	6	9	9	12,5	12,5	15
Cap. SAE	m^3	0,2	0,4	0,5	0,7	0,7	0,9	0,9	1,2	1,2	1,5	1,5	1,8
Working pressure	bar	250	250	310	310	310	310	310	310	310	310	310	310
Oil flow	l/min.	80 / 100	80 / 100	80 / 100	80 / 100	80 / 100	80 / 100	80 / 100	100 / 120	100 / 120	100 / 120	100 / 120	120 / 150
Rotation	l/min. / bar	10 / 120	10 / 120	10 / 140	10 / 140	10 / 140	10 / 140	10 / 140	10 / 140	10 / 140	10 / 140	10 / 140	20 / 140

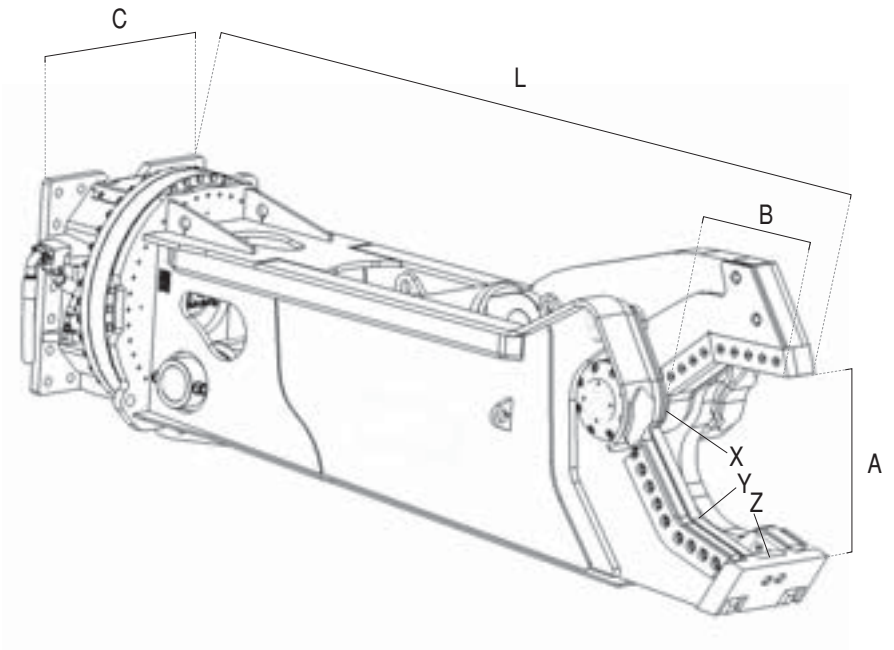
PMG C* Version: is recommended for selection and handling operations of waste materials
PMG S** Version: is recommended to demolish structures and buildings of average consistency



MARILYN SHEAR

CS Series

...destined for modern industrial demolition work sites that require substantial cutting power at considerable heights and for professionals who work in the recycling of scraps and ferrous materials. The continuous rotation, the protected cylinder, a speed multiplier valve and its interchangeable blades make it unique in its kind...



HARDOX WEAR PLATE

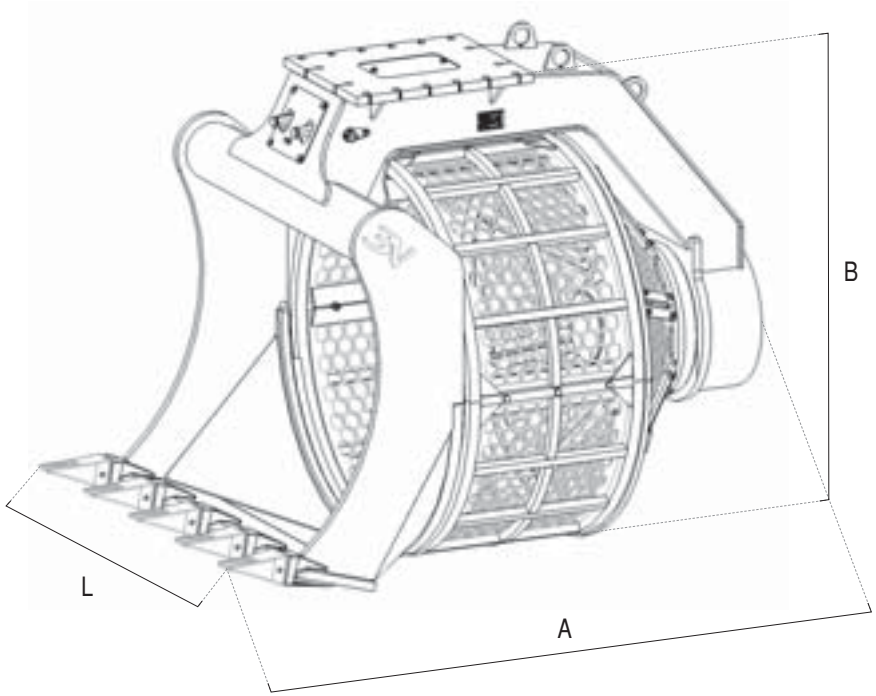
Speed Valve

		CS 05R	CS 07R	CS 20RS	CS 30RS	CS 40RS	CS 55RS	CS 70RS	CS 90RS
Excavator weight boom position	t.	2,5 : 4	4 : 7	10 : 16	17 : 22	25 : 30	30 : 40	45 : 55	70 : 90
Excavator weight bucket position	t.	5 : 8	8 : 12	18 : 25	30 : 38	40 : 50	55 : 70	75 : 100	120 : 150
Weight	kg.	450	750	1650	2800	3900	5650	7180	9250
A	mm.	340	405	535	615	680	780	845	920
B	mm.	320	355	445	545	600	690	710	780
C	mm.	460	460	715	715	865	1000	1100	1200
L	mm.	1725	2050	2660	3110	3420	3905	4190	4400
X	t.	70	210	270	550	600	715	875	1190
Y	t.	30	90	125	230	270	290	375	535
Z	t.	15	50	70	125	145	160	205	295
Working pressure	bar	250	310	310	340	340	340	340	340
Oil flow	l/min	80 / 150	100 / 150	180 / 250	200 / 300	300 / 400	400 / 500	450 / 600	500 / 800
Rotation	l/min. / bar	10 / 120	10 / 120	10 / 140	10 / 140	10 / 140	30 / 140	30 / 140	50 / 140

SCREENING BUCKET

BVR Series

...essential equipment for numerous applications such as selecting stones along water courses, selecting resulting materials after a demolition, reclaiming stony soil, cleaning beaches, separating organic waste in landfill sites, covering pipes in canalisation works...



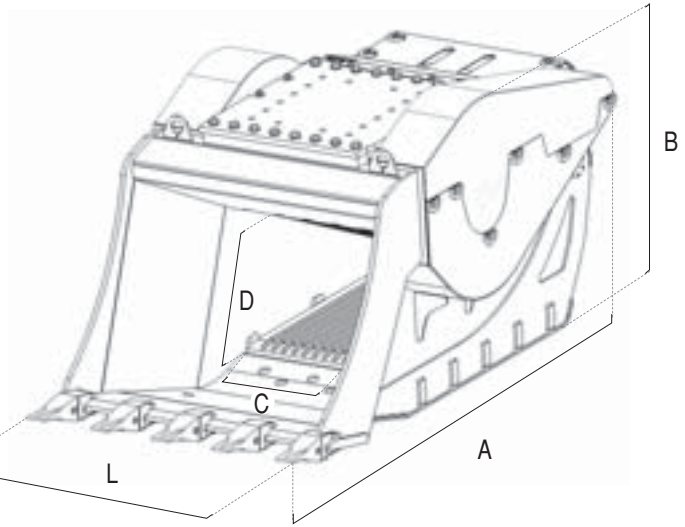
HARDOX® WEAR PLATE

		BVR 07	BVR 08	BVR 09	BVR 12C	BVR 12C Speed	BVR 14C	BVR 14C Speed	BVR 15C	BVR 15C Speed	BVR 19C
Excavator Weight	t.	3 : 5	5 : 8	8 : 12	13 : 16	13 : 16	17 : 21	17 : 21	22 : 30	22 : 30	31 : 40
Weight	kg.	250	350	690	1320	1320	1570	1570	1810	1810	2550
A	mm.	1070	1175	1480	1950	1950	2190	2190	2250	2250	2600
B	mm.	805	930	1055	1460	1460	1650	1650	1890	1890	2000
L	mm.	700	800	900	1200	1200	1400	1400	1600	1600	1750
Cap. SAE	m^3	0,2	0,3	0,4	0,75	0,75	0,9	0,9	1,1	1,1	1,5
Working pressure	bar	100 / 120	100 / 120	100 / 120	100 / 120	150 / 200	100 / 120	150 / 200	100 / 120	150 / 200	100 / 120
Oil flow	l/min.	30 / 50	30 / 50	50 / 70	80 / 100	100	80 / 100	100	80 / 100	100	80 / 100
Round per minute	rpm	18 / 24	18 / 24	18 / 24	18 / 24	35 / 40	18 / 24	35 / 40	18 / 24	35 / 40	18 / 24

CRUSHING BUCKET

BM Series

...conceived to crush the material coming from demolitions and from building restorations, to reclaim waste from storing centres and to process waste from quarry extractions, the crushing buckets allows recycling and reutilising the finished product directly in the construction yard...



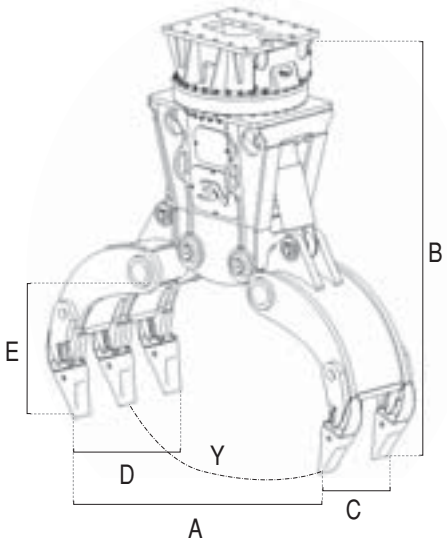
HARDOX® WEAR PLATE

		BM 25	BM 35
Excavator Weight	t.	18 : 25	25 : 45
Weight	kg.	2500	3500
A	mm.	2410	2510
B	mm.	1215	1280
L	mm.	930	1170
C	mm.	700	900
D	mm.	405	485
Cap. SAE	m^3	0,6	0,9
Working pressure	bar	220	220
Oil flow	l/min.	180	180
Size setting	mm.	50 / 100	50 / 100

HANDLING GRAB

PM Series

...it's proposed to complete a wide range of versatile and handy tools indispensable to satisfy the requirements of users working in the recycling and reclamation field, environmental recovery and block movement sector for the creation of artificial dykes, as well as for the targeted treatment of waste materials...



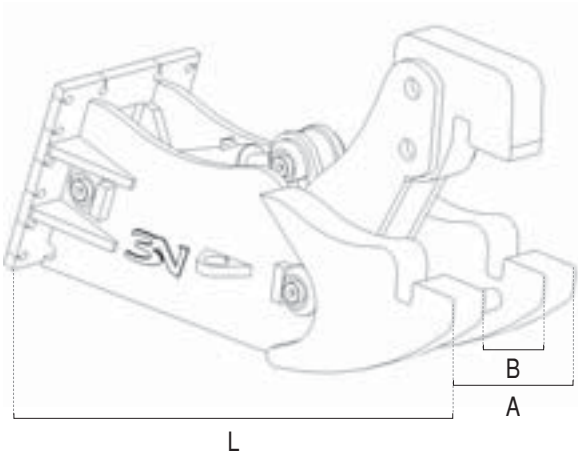
HARDOX® WEAR PLATE

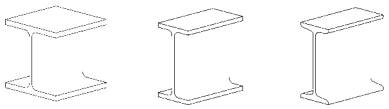
		PM 15	PM 20	PM 30
Excavator Weight	t.	15 : 20	20 : 30	30 : 40
Weight	kg.	1250	1850	3200
A	mm.	1570	1750	2180
B	mm.	2020	2200	2800
C	mm.	400	530	630
D	mm.	710	810	980
E	mm.	800	850	1100
Y	t.	6	10	15
Cap. SAE	m^3	0,6	0,9	1,2
Working pressure	bar	310	310	310
Oil flow	l/min.	100 / 200	180 / 250	200 / 300
Rotation	l/min. / bar	10 / 140	10 / 140	10 / 140

RIB POSITIONING CLAMP

PC Series

...equipment created for positioning the ribs that will constitute the support arcades of tunnels. They are custom-built according to the characteristics, the dimensions and the thicknesses of the rib or the I-beam to be lifted, respecting the customer's parameters and indications...





		PC 01	PC 02	PC 03
Excavator Weight	t.	15 : 25	25 : 35	35 : 50
Weight	kg.	650 ~	750 ~	850 ~
L	mm.	1500 ~	1500 ~	1500 ~
A	mm.	400	400	400
B	mm.	200	200	200
Working pressure	bar	200	200	200
Oil flow	l/min.	40 / 80	40 / 80	40 / 80

HARDOX® WEAR PLATE

"Production always starts from the technical department". A whole department is dedicated to research, development and the technological perfection of the product from the first design stages up to when the product is sent to the final user. Adopting a three-dimensional "Solid Works" drawing programme, we have overcome the limits and restrictions that two-dimensional views offered, succeeding in obtaining:
- design simplicity thanks to the parameterisation of the dimensions;
- the possibility to analyse interferences between the bodies dynamically;
- the possibility to calculate masses and centres of gravity of the structures automatically;
- generation of a three-dimensional dynamic image of the component made.

The material used for the construction of Trevi Benne's excavation, loading, demolition and recycling equipment is mainly Hardox. Hardox is a plate that satisfies the most demanding requirements in terms of wear / weldability / abrasion. The particular combination of strength and increased hardness, very high yield and excellent toughness, make the product largely suitable for various types of applications. The Hardox wear plates are an excellent choice in applications in which wear is prominent and can produce greater damage. The high resistance to wear increases the service life of the equipment and its components guaranteeing longevity and reliability.

The "speed multiplier" valve recovers and reuses the discharged oil. The presence of this regenerating circuit in most of the Trevi Benne demolition equipment allows the time required for closing the jaws when approaching the material to be crushed to be notably reduced.

The system of interchangeable teeth used on various models of the Trevi Benne demolition equipment, allows quick replacement of the latter directly on the work site, hence avoiding having to take back the parts that are subject to wear, reducing maintenance costs and hence limiting machine downtime.

NAD is an Association made up of Italian demolition contractors with the aim of developing and promoting demolition according to particularly high quality standards. Since 2006 Trevi Benne has been an active sponsor of the Association contributing through financial support to the growth, promotion and development of the demolition, recycling and environmental recovery industry, participating in conventions and advertising in specialized magazines.

Since June 2006 Trevi Benne S.p.A. is a company that has gained the Management System certification for Quality in conformity with the UNI EN ISO 9001:2000 standard, issued by the Certifying Body TÜV Italia with cert. N° 501005936, valid for the application field in the design and production of buckets, earth moving machinery equipment and hydraulic and mechanical equipment for the demolition and recycling of aggregates.

The weights of the equipment described in this catalogue do not include the attachment adapter plate.
The product characteristics and specifications can vary without any obligation to provide advance notice.

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Certified company
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UNI EN ISO 9001:2000